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a. If letter or memo:

To: John R. Horan, Director Health and Safety
Division
From: Norman F. Islitzer, MIC, U.S. Weather
Bureau
Subject: WEATHER BUREAU MONTHLY
ACTIVITY REPORT, MAY 1964

b. If report:

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June 1, 1964

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5. Summary (2-3 lines indicating the major subject(s) of the document):

This memorandum discusses the activities conducted by the Weather Bureau during the month of May 1964. Activities of interest are; 1) The basic meteorological analyses for the System for Nuclear Auxiliary Power Transient (SNAPTRAN) 2/10-A3 reactor destruct test were completed, 2) Grid #3 was placed into a condition of readiness for the Iodine-129 tracer studies.

6. Name and telephone number of person completing form: Don C. Bradley (208) 525-0203	7. Organization: Lockheed Idaho Technologies Co.	8. Date: June 9, 1995
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HUMAN RADIATION EXPERIMENTS

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CROSS REFERENCES:

ITEMS OF INTEREST:

John R. Horan, Director
Health and Safety Division

June 1, 1964

Norman F. Islitzer, MIC
U. S. Weather Bureau

Weather Bureau Monthly Activity Report, May 1964

WBRB:NFI

SNAPTRAN 2/10-A3 and SPERT Destruct #3: The basic meteorological analyses for these reactor destruct tests have been completed in draft form. Information on puff dispersion, effluent trajectories and travel speed, and source estimates are being obtained from the data. This information will be included in the Health Physics Branch report.

Waste Calciner: Weather Bureau personnel assisted the Health Physics Branch in re-establishing and enlarging the air sampling ring around the Waste Calciner stack. Periodic sampling of the Waste Calciner effluent is planned for long-period average dispersion studies.

ETR: Operational forecasts for the start of some experiments in the ETR were given to the contractor and the HP Branch, ID. The tests required a steady wind from the southwest quadrant for four hours, with reasonably good mixing conditions to prevent contamination of the MTR-ETR areas.

Iodine-129 Tracer Studies: Grid #3 has been placed into a condition of readiness for the forthcoming iodine-129 studies to take place later in the summer. Arcs at about 5 and 10 miles distance from the release point are being surveyed along convenient roads to provide longer-range sampling. These arcs will consist of gasoline-driven generators and high volume air samplers supplied by the HP Branch.

A meeting of representatives from the Nuclear Science Engineering Corporation, AEC Headquarters, Weather Bureau, Washington, D. C. and NRTS was held at the New York Operations Office to complete the arrangements for the iodine-129 tests. It is expected that the tests will be conducted over a 3-week period in July and August.

AEC Meteorological Activities Conference, Brookhaven National Laboratory: A conference of participants in the various AEC supported meteorological activities was held at Brookhaven National Laboratory, May 18 - 21, in which station programs and recent results were presented. In addition panel discussions of deposition, forecasting and measurement of dispersion, and structure of turbulence were conducted. The following personnel attended the meetings: Norman F. Islitzer, C. Ray Dickson and Earl H. Markee.

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Weather Bureau Monthly Activity

Report, May 1964

John R. Horan

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June 1, 1964

Diffusion Climatology: A wind direction persistence study by IBM computer has been completed for both the surface and tower-top levels at Central Facilities and TAN. The analyses were performed on the IBM 7090 of the U. S. Weather Bureau, Washington, D. C. The results are presently being analyzed for the more appropriate type presentation.

Miscellaneous: Hazard report "ML-1 IDO-28560 Supplement IV" was reviewed for the HP Branch.

Visitors: Gary Herbert, Weather Bureau, Washington, D. C. conducted several runs with his sonic anemometer and the NRTS bivane and 3-cup anemometer. Information from all three sensors was stored by the 10-channel digital system for analysis in Washington.

Professor Hungerford, University of Idaho - for the purpose of discussing dew and other micrometeorological parameters, the measurement and interpretation thereof, that may be important in ecological studies.

Jean Jacques Martin, France - Discussion of techniques and experiments in reactor siting, hazard evaluation, and atmospheric dispersion and deposition.

Norman F. Islitzer
Meteorologist in Charge

cc: Don Pack, EMRP
John R. Horan
Ralph Batie ✓